

Serial Number: 10/058,580CRF Processing Date: 3/4/2002
Edited by: A
Verified by: A (STIC staff) Changed a file from non-ASCII to ASCII**ENTERED** Changed the margins in cases where the sequence text was wrapped down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____. Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____. Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: Other: Seq 3 - corrected spelling of "Artificial"



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/058,580

DATE: 03/04/2002
TIME: 18:07:44

Input Set : A:\pto.txt
Output Set: N:\CRF3\03042002\J058580.raw

3 <110> APPLICANT: Sheppard, Paul O.
 4 Novak, Julia E.
 5 Raymond, Fenella
 7 <120> TITLE OF INVENTION: Tumor Marker Zsig62
 9 <130> FILE REFERENCE: 98-76
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/058,580
 C--> 11 <141> CURRENT FILING DATE: 2002-01-28
 11 <160> NUMBER OF SEQ ID NOS: 8
 13 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 2334
 17 <212> TYPE: DNA
 18 <213> ORGANISM: Homo sapiens
 20 <220> FEATURE:
 21 <221> NAME/KEY: CDS
 22 <222> LOCATION: (20)...(316)
 24 <400> SEQUENCE: 1
 25 caggtcatgt cattccaga atg tgt tgc tgg cct tct cca tgg gtg cag gga 52
 Met Cys Cys Trp Pro Ser Pro Trp Val Gln Gly
 26 1 5 10
 27 29 agc cct ggc att tgg cat ttg tgg gca gtg ttg gcg tgc cac ctg ggt 100
 30 Ser Pro Gly Ile Trp His Leu Trp Ala Val Leu Ala Cys His Leu Gly
 31 15 20 25
 33 34 cac agc agc agg cag gga atc ctg aga cat cgc cct ggg gga gcc 148
 His Ser Ser Arg Gln Gly Ile Leu Arg His Arg Pro Gly Gly Ala
 35 30 35 40
 37 38 ctg cct tct acc cca ggc tgt aca atg acg agt act ctt gga caa aga 196
 Leu Pro Ser Thr Pro Gly Cys Thr Met Thr Ser Thr Leu Gly Gln Arg
 39 45 50 55
 41 42 ccc ctc ttg caa ggc tgc gag gac atc atg gtc cag ccc gag gga gat 244
 Pro Leu Leu Gln Gly Cys Glu Asp Ile Met Val Gln Pro Glu Gly Asp
 43 60 65 70 75
 45 46 tta tct ttg att gtc ttg agt gct gca tca gct aag aca aaa acc aca 292
 Leu Ser Leu Ile Val Leu Ser Ala Ala Ser Ala Lys Thr Lys Thr Thr
 47 80 85 90
 49 50 gag tca gag gga aaa aaa acg tcc tgatgaggat tgtgcaattt ccggaccatc 346
 Glu Ser Glu Gly Lys Lys Thr Ser
 51 95
 53 54 attttttaaa aattataaat tatgaaatcc cacatttca atcccaattt ctggAACGTG 406
 ttttatTTTg agcacagaat ggcaacatcc caggaaaaaa agtcatgctc ccattttgct 466
 55 56 tgtaatcaag tgagctggaa ctgaccctac cccaaatatt ttttgaatag ggaaaagact 526
 caactggacc cctctaagga ctgggagctg gcatggagct ggcattcttct gagactgact 586
 57 tgagaagagc ctgataacgc cttagagaaa caggcagggt tttgcgagca gggaaagatg 646

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58	atagtgggtg	ggtggggagc	tggcgagggt	gccccaggca	gaggcacccgt	gtgtgtgcaa	706
59	aggcctgcag	gtggagaagg	gcctggact	cttggagaat	ggcaggaagt	ttgtgtgcc	766
60	tgttagtcat	gagccaggct	cagggcagca	aaggctgtc	ctgcagggtgt	tgtatgagc	826
61	tgtaccactt	agtgggcacc	atcaagatga	acagagagta	acacgggtggc	actgagaact	886
62	tgagaacacg	tcactctaga	atgaactgtg	tcctccaaag	tgtcagagc	caatacctag	946
63	gggtccccaa	ggtgactgag	cacgggcaca	gatccagcag	caaattcccc	cagtc当地	1006
64	gctgttcttt	ccattctctg	ttctttccat	tctctgttct	tctggccctt	ctgcttatgg	1066
65	caaggtgaaa	gtcacaggtg	gaattgtccc	tatcacctct	cccacaccc	gatctccttt	1126
66	tacaacaaag	agcaagcatc	ctctacaaca	aagccttgg	ttgggtcag	tgctctggctg	1186
67	ggaggaagta	actgttgttt	ttactgtgtt	taatttcaact	cctgcccgtct	gttcacggca	1246
68	ccagtatca	ggttctctgc	cagtgggagt	gatagaaaagt	tacctttta	aagtaaattt	1306
69	cttggAACGC	aaaaaaaacaag	ccaagttaaa	taaaaaataca	aaatatgggg	ccaggcgcgg	1366
70	tggctctgtc	ctgtcatccc	agcactttgg	gaggctgaga	cgggtggatca	cctgaggtca	1426
71	ggagttttag	accagcctga	ccaacaaggt	gaagccccgt	ctctactaaa	aatacaaaaa	1486
72	ttagccggc	gtgggtggcag	gcacctgttag	tccacgtac	tcgggaggct	gggacagagg	1546
73	aattgcttga	acccgggagg	cggaggttgc	agtgagccga	gatcacccca	ccactgcact	1606
74	ccagcctggg	tgacggagcg	agatgccatt	tcaaaaacaaa	aacaaaat	gtactggatc	1666
75	cagtagcacag	taggaaggtg	ggcaaaaactt	gggaaggggg	atattcaag	gacagggttt	1726
76	ggggaaatgt	ggatcaaggt	gggggaagaa	ggagaactga	gaggcttta	taatttagag	1786
77	aagtgcctt	cagagtgggg	gccagcagcc	aggcccccgt	gctcatgcct	gtacccctaa	1846
78	cactttggga	ggtctaggcg	ggaggattgc	ctgagcccaag	gagttcgagt	ccagcttgc	1906
79	caacatagtg	agatgctgtc	tctacaaaaaa	atttaaaaat	tagctgggt	cctctcagtg	1966
80	tgtctgttcc	tctccatgtt	tctaaaataa	aggaagaaaag	gcccagcgc	gtggcgtaca	2026
81	cctatagtct	cagcaacttgc	ggaggccaaag	gtggcagat	cacttggat	caggagttcg	2086
82	agaccagctt	ggctaacatg	gcaaaaacctt	gtttctactg	gaaataaaaa	aattagctag	2146
83	gcgtgggtgt	gcacgcctgt	aatcccagct	acttgggagg	ctgaggagg	agaaccgcctt	2206
84	gagcctggga	ggcagaggct	gcagttagcc	aagatcacac	actgcactcc	agcctgggtg	2266
85	acagagcag	actccatctc	aaataaataa	ataaaataat	aaaaataaaat	acataaaatac	2326
86	ataaaaata						2334

88 <210> SEQ ID NO: 2

89 <211> LENGTH: 99

90 <212> TYPE: PRT

91 <213> ORGANISM: Homo sapiens

93 <400> SEQUENCE: 2

94	Met	Cys	Cys	Trp	Pro	Ser	Pro	Trp	Val	Gln	Gly	Ser	Pro	Gly	Ile	Trp
95	1			5					10					15		
96	His	Leu	Trp	Ala	Val	Leu	Ala	Cys	His	Leu	Gly	His	Ser	Ser	Ser	Arg
97					20				25					30		
98	Gln	Gly	Ile	Leu	Arg	His	Arg	Pro	Gly	Gly	Ala	Leu	Pro	Ser	Thr	Pro
99					35			40						45		
100	Gly	Cys	Thr	Met	Thr	Ser	Thr	Leu	Gly	Gln	Arg	Pro	Leu	Leu	Gln	Gly
101					50			55						60		
102	Cys	Glu	Asp	Ile	Met	Val	Gln	Pro	Glu	Gly	Asp	Leu	Ser	Leu	Ile	Val
103					65			70				75			80	
104	Leu	Ser	Ala	Ala	Ser	Ala	Lys	Thr	Lys	Thr	Thr	Glu	Ser	Glu	Gly	Lys
105					85				90					95		
106	Lys	Thr	Ser													
108	<210>	SEQ	ID	NO:	3											
109	<211>	LENGTH:	297													

RAW SEQUENCE LISTING
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TIME: 18:07:44

Input Set : A:\pto.txt
Output Set: N:\CRF3\03042002\J058580.raw

```

110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: This degenerate sequence encodes the amino acid
115 sequence of SEQ ID NO:2.
W--> 117 <221> NAME/KEY: variation
118 <222> LOCATION: (1)...(297)
119 <223> OTHER INFORMATION: N is any nucleotide.
W--> 121 <400> 3
W--> 122 atgtgtgtt ggccnwsnc ntgggtncar ggnwsnccng gnathtggca yytntggcn      60
W--> 123 gtnytngcnt gycayytng ncaywsnwsn wsnmgnrcarg gnathytnmg ncaymgnccn      120
W--> 124 ggnngngcny tnccnwsnac nccnggntgy acnatgacnw snacnytng ncarmgnccn      180
W--> 125 ytnytnrcarg gntgygargaa yathatggtn carccngarg gngayytwns nytnathgtn      240
W--> 126 ytnwsnsgcng cnwsnsgcnaa racnaaracn acngarwsng arggnaaraa racnwsn      297
128 <210> SEQ ID NO: 4
129 <211> LENGTH: 23
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: PCR primer
136 <400> SEQUENCE: 4
137 ctgatgcagc actcaagaca atc                                         23
139 <210> SEQ ID NO: 5
140 <211> LENGTH: 24
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: PCR primer
147 <400> SEQUENCE: 5
148 ggcattttgtg ggcagtgttg gggc                                         24
150 <210> SEQ ID NO: 6
151 <211> LENGTH: 18
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: PCR primer
158 <400> SEQUENCE: 6
159 ggagctggca tcttctga
161 <210> SEQ ID NO: 7                                         18
162 <211> LENGTH: 18
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: PCR primer
169 <400> SEQUENCE: 7
170 tcccccaccca cccactat
172 <210> SEQ ID NO: 8                                         18
173 <211> LENGTH: 16
174 <212> TYPE: PRT

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/058,580

DATE: 03/04/2002
TIME: 18:07:44

Input Set : A:\pto.txt
Output Set: N:\CRF3\03042002\J058580.raw

175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Peptide linker
180 <400> SEQUENCE: 8
181 Gly Gly Ser Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
182 1 5 10 15

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/058,580

DATE: 03/04/2002
TIME: 18:07:45

Input Set : A:\pto.txt
Output Set: N:\CRF3\03042002\J058580.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 15,18,21,27,33,36,39,42,54,60,63,66,69,78,81,87,90,93,96,102
Seq#:3; N Pos. 108,111,117,120,123,126,129,132,135,138,141,144,147,153,159
Seq#:3; N Pos. 162,165,168,171,177,180,183,186,192,210,216,222,228,231,234
Seq#:3; N Pos. 240,243,246,249,252,255,258,264,270,273,279,285,294,297